



American
Centrifuge
Manufacturing, LLC

A joint company between B&W and USEC

- ▶ 400 Centrifuge Way - Oak Ridge, TN 37830
- ▶ phone: 865-241-7000 - fax: 865-241-7135

2011 MAY 17 PM 12: 42

May 12, 2011

Mr. John Trimmer
State of Tennessee
Division of Air Pollution Control
9th Floor, L&C Annex
401 Church Street
Nashville, TN 37243-1531

Subject: Submission of APC 20 and APC 22 for New Process

Dear Mr. Trimmer:

American Centrifuge Manufacturing, LLC (ACM) is planning to implement a new process involving the use of fluorine, which would result in the emission of small quantities of fluorides to the environment. This new process will be conducted at the ACM facility located at 400 Centrifuge Way, Oak Ridge, TN.

Enclosed are the APC 20 and APC 22, which are submitted in accordance with Tennessee Air Pollution Control Regulations. It is our belief that under Part 1200-3-9-.04(2)(a)3 of these regulations this process constitutes an *"insignificant activity or insignificant emissions unit."*

If you have questions or require additional information please contact me at (865) 241-7317 or by e-mail at mgknight@babcock.com.

Sincerely,

Michael G. Knight
Director
Safety, Security & Regulatory Affairs



NOT TO BE USED FOR TITLE V APPLICATIONS

PERMIT APPLICATION 2011 MAY 17 PM 12: 42

APC 20

PLEASE TYPE OR PRINT AND SUBMIT IN DUPLICATE FOR EACH EMISSION SOURCE. ATTACH APPROPRIATE SOURCE DESCRIPTION FORMS.

1. ORGANIZATION'S LEGAL NAME American Centrifuge Manufacturing, LLC			/// FOR	APC COMPANY--POINT NO.
2. MAILING ADDRESS (ST/RD/P.O. BOX) 400 Centrifuge Way			/// APC	APC LOG/PERMIT NO. 64598
CITY Oak Ridge	STATE TN	ZIP CODE 37830	PHONE WITH AREA CODE 865-241-7317	
3. PRINCIPAL TECHNICAL CONTACT Gary Pitcher			PHONE WITH AREA CODE 865-241-7010	
4. SITE ADDRESS (ST/RD/HWY) 400 Centrifuge Way			COUNTY NAME Anderson	
CITY OR DISTANCE TO NEAREST TOWN Oak Ridge		ZIP CODE 37830	PHONE WITH AREA CODE 865-241-7317	
5. EMISSION SOURCE NO. (NUMBER WHICH UNIQUELY IDENTIFIES THIS SOURCE)		PERMIT RENEWAL YES () NO (X)		
6. BRIEF DESCRIPTION OF EMISSION SOURCE Fluorination of Centrifuge parts.				

7. TYPE OF PERMIT REQUESTED				
CONSTRUCTION (XX)	STARTING DATE 06/06/2011	COMPLETION DATE 06/30/2011	LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER 01-0138
OPERATING ()	DATE CONSTRUCTION STARTED	DATE COMPLETED	LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER
LOCATION TRANSFER ()	TRANSFER DATE		LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER
ADDRESS OF LAST LOCATION				

8. DESCRIBE CHANGES THAT HAVE BEEN MADE TO THIS EQUIPMENT OR OPERATION SINCE THE LAST CONSTRUCTION OR OPERATING PERMIT APPLICATION.


9. SIGNATURE (APPLICATION MUST BE SIGNED BEFORE IT WILL BE PROCESSED) 		DATE 5/13/11
10. SIGNER'S NAME (TYPE OR PRINT) Michael G. Knight	TITLE Director, Safety, Security & Regulatory Affairs	PHONE WITH AREA CODE (865) 241-7317

TABLE OF POLLUTION REDUCTION DEVICE OR METHOD CODES
(ALPHABETICAL LISTING)

NOTE: FOR CYCLONES, SETTLING CHAMBERS, WET SCRUBBERS, AND ELECTROSTATIC PRECIPITATORS. THE EFFICIENCY RANGES CORRESPOND TO THE FOLLOWING PERCENTAGES:

HIGH: 95-99% MEDIUM: 80-95% AND LOW: LESS THAN 80%.

IF THE SYSTEM HAS SEVERAL PIECES OF CONNECTED CONTROL EQUIPMENT, INDICATE THE SEQUENCE, FOR EXAMPLE:

008*010.97%.

IF NONE OF THE BELOW CODES FIT, USE 999 AS A CODE FOR OTHER AND SPECIFY IN THE COMMENTS.

NO EQUIPMENT	000	LIMESTONE INJECTION--DRY	041
ACTIVATED CARBON ADSORPTION	048	LIMESTONE INJECTION--WET	042
AFTERBURNER--DIRECT FLAME	021	LIQUID FILTRATION SYSTEM	049
AFTERBURNER--DIRECT FLAME WITH HEAT EXCHANGER	022	MIST ELIMINATOR--HIGH VELOCITY	014
AFTERBURNER--CATALYTIC	019	MIST ELIMINATOR--LOW VELOCITY	015
AFTERBURNER--CATALYTIC WITH HEAT EXCHANGER	020	PROCESS CHANGE	046
ALKALIZED ALUMINA	040	PROCESS ENCLOSED	054
CATALYTIC OXIDATION--FLUE GAS DESULFURIZATION	039	PROCESS GAS RECOVERY	060
CYCLONE--HIGH EFFICIENCY	007	SETTLING CHAMBER--HIGH EFFICIENCY	004
CYCLONE--MEDIUM EFFICIENCY	008	SETTLING CHAMBER--MEDIUM EFFICIENCY	005
CYCLONE--LOW EFFICIENCY	009	SETTLING CHAMBER--LOW EFFICIENCY	006
DUST SUPPRESSION BY CHEMICAL STABILIZERS		SPRAY TOWER (GASEOUS CONTROL ONLY)	052
OR WETTING AGENTS	062	SULFURIC ACID PLANT--CONTACT PROCESS	043
ELECTROSTATIC PRECIPITATOR--HIGH EFFICIENCY	010	SULFURIC ACID PLANT--DOUBLE CONTACT PROCESS	044
ELECTROSTATIC PRECIPITATOR--MEDIUM EFFICIENCY	011	SULFUR PLANT	045
ELECTROSTATIC PRECIPITATOR--LOW EFFICIENCY	012	VAPOR RECOVERY SYSTEM (INCLUDING CONDENSERS,	
FABRIC FILTER--HIGH TEMPERATURE	016	HOODING AND OTHER ENCLOSURES)	047
FABRIC FILTER--MEDIUM TEMPERATURE	017	VENTURI SCRUBBER (GASEOUS CONTROL ONLY)	053
FABRIC FILTER--LOW TEMPERATURE	018	WET SCRUBBER--HIGH EFFICIENCY	001
FABRIC FILTER--METAL SCREENS (COTTON GINS)	059	WET SCRUBBER--MEDIUM EFFICIENCY	002
FLARING	023	WET SCRUBBER--LOW EFFICIENCY	003
GAS ADSORPTION COLUMN--PACKED	050	WET SUPPRESSION BY WATER SPRAYS	061
GAS ADSORPTION COLUMN--TRAY TYPE	051		
GAS SCRUBBER (GENERAL: NOT CLASSIFIED)	013		

TABLE OF EMISSION ESTIMATION METHOD CODES

NOT APPLICABLE EMISSIONS ARE KNOWN TO BE ZERO	0
EMISSIONS BASED ON SOURCE TESTING	1
EMISSIONS BASED ON MATERIAL BALANCE USING ENGINEERING EXPERTISE AND KNOWLEDGE OF PROCESS	2
EMISSIONS CALCULATED USING EMISSION FACTORS FROM EPA PUBLICATION NO. AP-42 COMPILATION OF	
AIR POLLUTANT EMISSIONS FACTORS	3
JUDGEMENT	4
EMISSIONS CALCULATED USING A SPECIAL EMISSION FACTOR DIFFERING FROM THAT IN AP-42	5
OTHER (SPECIFY IN COMMENTS)	6



NOT TO BE USED FOR TITLE V APPLICATIONS

EMISSION POINT DESCRIPTION

APC 22

PLEASE TYPE OR PRINT AND SUBMIT IN DUPLICATE FOR EACH STACK OR EMISSION POINT.
ATTACH TO THE PERMIT APPLICATION.

1. ORGANIZATION NAME				///	APC COMPANY POINT NO.		
American Centrifuge Manufacturing, LLC				FOR			
2. EMISSION SOURCE NO. (FROM APPLICATION)		FLOW DIAGRAM POINT NUMBER		///	APC SEQUENCE NO.		
01-0138				APC			
3. LOCATION:	LATITUDE	LONGITUDE	UTM VERTICAL		UTM HORIZONTAL		
→	36 00' 41"	84 13' 23"					
4. BRIEF EMISSION POINT DESCRIPTION (ATTACH A SKETCH IF APPROPRIATE):					DISTANCE TO NEAREST PROPERTY LINE (FT)		
Fluorination of Centrifuge parts.							
COMPLETE LINES 5 AND 6 IF DIFFERENT FROM THAT ON THE PROCESS OR FUEL BURNING SOURCE DESCRIPTION (APC 21)							
5. NORMAL OPERATION:	HOURS/DAY	DAYS/WEEK	WEEK/YEAR		DAYS/YEAR		
	24	1	12				
6. PERCENT ANNUAL THROUGHPUT:	DEC.-FEB.	MARCH-MAY	JUNE-AUG.		SEPT.-NOV.		
→	25	25	25		25		
7. STACK OR EMISSION POINT DATA:	HEIGHT ABOVE GRADE (FT)	DIAMETER (FT)	TEMPERATURE (°F)	% OF TIME OVER 125°F	DIRECTION OF EXIT (UP, DOWN OR HORIZONTAL)		
	20	0.16	Ambient	0	Horizontal		
DATA AT EXIT CONDITIONS:	FLOW (ACTUAL FT ³ /MIN.)	VELOCITY (FT/SEC)	MOISTURE (GRAINS/FT ³)		MOISTURE (PERCENT)		
→	10.5	2.	Ambient		Ambient		
DATA AT STANDARD CONDITIONS:	FLOW (DRY STD. FT ³ /MIN)	VELOCITY (FT/SEC)	MOISTURE (GRAINS/FT ³)		MOISTURE (PERCENT)		
		2	Ambient		Ambient		
8. AIR CONTAMINANTS	ACTUAL EMISSIONS				EMISSIONS* EST. METHOD	CONTROL DEVICES*	CONTROL EFFICIENCY%
	EMISSIONS (LBS/HR)		CONCENTRATION	AVG. EMISSIONS (TONS/YR)			
	AVERAGE	MAXIMUM					
PARTICULATES	0	0	***				
SULFUR DIOXIDE	0	0	***				
CARBON MONOXIDE	0	0	PPM				
ORGANIC COMPOUNDS	0	0	PPM				
NITROGEN OXIDES	0	0	PPM				
FLUORIDES	0.000019	0.000192		0.00000017	2	050	90
OTHER(SPECIFY)							
OTHER(SPECIFY)							

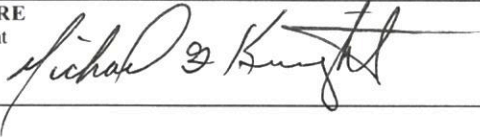
(OVER)

9. CHECK TYPES OF MONITORING AND RECORDING INSTRUMENTS THAT ARE ATTACHED:

Not applicable

OPACITY MONITOR (), SO₂ MONITOR (), NO_x MONITOR (), OTHER (SPECIFY IN COMMENTS) ()**10. COMMENTS****11. SIGNATURE**

Michael G. Knight

**DATE**

5/13/11

* REFER TO THE BACK OF THE PERMIT APPLICATION FORM FOR ESTIMATION METHOD AND CONTROL DEVICE CODES.

** EXIT GAS PARTICULATE CONCENTRATION UNITS: PROCESS — GRAINS/DRY STANDARD FT³ (70°F); WOOD FIRED BOILERS — GRAINS/DRY STANDARD FT³ (70°F); ALL OTHER BOILERS — LBS/MILLION BTU HEAT INPUT.

*** EXIT GAS SULFUR DIOXIDE CONCENTRATIONS UNITS: PROCESS — PPM BY VOLUME, DRY BASES; BOILERS — LBS/MILLION BTU HEAT INPUT.